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47390 7590 06/03/2005

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06/28/2005 FFANAI3 00000106 10658833

01 FC:1501 1400.00 OP
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Hui Chin Barnhill	(Depositor's name)
<i>H-Ch Barnhill</i>	(Signature)
June 24 2005	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,833	09/09/2003	Chung-Cheng Chou	252011-1340	2860

TITLE OF INVENTION: TEMPERATURE DETECTING CIRCUIT FOR CONTROLLING A SELF-REFRESH PERIOD OF A SEMICONDUCTOR MEMORY DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	09/06/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
LE, VU ANH	2824	365-189090

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

¹Thomas, Kayden,
²Horstemeyer & Risley
³

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TAIWAN SEMICONDUCTOR
 MANUFACTURING CO., LTD.

HSINCHU, TAIWAN, R.O.C.

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
- ☒ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

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- ☐ A check in the amount of the fee(s) is enclosed.
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5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature *Daniel R. McClure*Date June 24, 2005Typed or printed name Daniel R. McClureRegistration No. 38,962

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